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1 A framework for reducing the cost of instrumented code

Matthew Arnold, Barbara G. Ryder
May 2001 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2001 conference on Programming language design and implementation PLDI '01**, Volume 36 Issue 5
Publisher: ACM Press

Full text available: pdf(1.78 MB) Additional Information: full citation, abstract, references, citings, index terms

Instrumenting code to collect profiling information can cause substantial execution overhead. This overhead makes instrumentation difficult to perform at runtime, often preventing many known *offline* feedback-directed optimizations from being used in online systems. This paper presents a general framework for performing *instrumentation sampling* to reduce the overhead of previously expensive instrumentation. The framework is simple and effective, using code-duplication and *coun* ...

2 Mobile code: Anomaly intrusion detection in dynamic execution environments

Hajime Inoue, Stephanie Forrest
September 2002 **Proceedings of the 2002 workshop on New security paradigms NSPW '02**
Publisher: ACM Press

Full text available: pdf(867.25 KB) Additional Information: full citation, abstract, references, index terms

We describe an anomaly intrusion-detection system for platforms that incorporate dynamic compilation and profiling. We call this approach "dynamic sandboxing." By gathering information about applications' behavior usually unavailable to other anomaly intrusion-detection systems, dynamic sandboxing is able to detect anomalies at the application layer. We show our implementation in a Java Virtual Machine is both effective and efficient at stopping a backdoor and a virus, and has a low false positi ...

Keywords: Java, anomaly detection, dynamic sandboxing

3 Partial method compilation using dynamic profile information

John Whaley
October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and**